

Date: Wed, 13 Jan 93 20:04:56 PST
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #57
To: Info-Hams

Info-Hams Digest Wed, 13 Jan 93 Volume 93 : Issue 57

Today's Topics:

49Mhz Toys to 6 meter -- How?
Anybody want to talk about Clover?
 BinHex 4.0
FCC General Radiotelephone license in aviation
How to get line-level audio out from DJ-580?
 How to get started?
 License Delays 10/25 - 1/5
Looking for FT727r Service Manual (used)
Maidenhead system and GPS receivers
Mobile 2m/70cm Antenna Mounts ???
Need a 3rd hand for Soldering!?
 Reclaiming dormant SB100
STS-54 Element Set (013.63355)
 Wanted: Teletype Model 15
 WWV Phone number?

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Thu, 14 Jan 1993 02:37:36 GMT
From: usc!zaphod.mps.ohio-state.edu!pacific.mps.ohio-state.edu!linac!att!cbnewse!
cbnewsd!att-out!cbfsb!cbnewsb.cb.att.com!wa2ise@network.UCSD.EDU
Subject: 49Mhz Toys to 6 meter -- How?
To: info-hams@ucsd.edu

In article <1993Jan13.091219.26514@ncrcae.ColumbiaSC.NCR.COM>
jbate@ncrcol.ColumbiaSC.NCR.COM (John.Bate) writes:

>I missed the original posting on how one would go about
>converting the toy walkie talkies to 6 meters. We have
>a couple of the PlaySkool Lil' Talkers
>and would like to modify them to transmit in the amateur band.

If these talkies are el-cheapo AM regenerative receivers, they probably have one xtal at the xmit frequency, 49.830MHz (or something like that). And a small number of transistors (like 3 or 4), and one adjustable inductance. I once modified a toy talkie and put it on 50.585MHz (that's just a crystal I had in the junk box). Just changed the xtal.

And tweaked the adjustable coil for receive and xmit. Took it over when visiting a ham friend as a goof, and it turned out he had a "repeater" set up: AM 6M -> FM 2M, FM 2M -> AM 6M. (the 6M section had selectable modes, forgot what model and make the equipment was). And I had a QSO thru this system, me on toy AM 6M HT, other ham on regular 2M FM. That ham was a bit confused as to what "equipment" I was using!

I had a range of about 100 or so feet, maybe 200.

If your selection of junk box xtals permits, select one that puts the toys in the AM and SSB subband (50.1 to 51?).

Date: Wed, 13 Jan 1993 17:38:23 GMT
From: ncar!mimbres.cs.unm.edu!constellation!osuunx.ucc.okstate.edu!
datacomm.ucc.okstate.edu!martin@ames.arpa
Subject: Anybody want to talk about Clover?
To: info-hams@ucsd.edu

One night, during mid December, we had a small Sporadic E opening from Oklahoma to points West and Southwest. I could hear Spanish T.V. audio on channel three and the strangest sounding packet activity on 50.115 that I ever had heard. There was lots of this weird sounding stuff which sounded like bursts of white noise. Occasionally, there would be bursts of about a second or so, but most of them were about 1/4 second. Listening with SSB produced a quavory sounding signal which didn't sound like anything normal, at all. Could this have been Clover or what? My general feeling was that it was a rather high data rate, but it was, of course, hard to tell without a real demodulator.

Martin McCormick WB5AGZ Stillwater, OK
O.S.U. Computer Center Data Communications Group

Date: Thu, 14 Jan 1993 01:11:08 GMT
From: swrinde!zaphod.mps.ohio-state.edu!rpi!cary105.its.rpi.edu!
mellob@network.UCSD.EDU

Subject: BinHex 4.0
To: info-hams@ucsd.edu

I've downloaded stuff from an ftp site but some of the files i got need to be converted into something readable by a program called

BinHex 4.0

Where can I get this?

Please e-mai response because i don't check this group often..

THANKS IN ADVANCE!

-Brett Mellor

Rensselaer Polytechnic Institute

mellob@rpi.edu

Date: Wed, 13 Jan 1993 21:39:51 GMT
From: stanford.edu!Csl!kawai@uunet.uu.net
Subject: FCC General Radiotelephone license in aviation
To: info-hams@ucsd.edu

Dear all

What is the practical significance of holding an FCC General Radiotelephone license as far as aviation is concerned?

I understand that, as far as flying aircraft of U.S. registry within the U.S. is concerned, an FCC license is not required to operate the aircraft's radio. (The aircraft has its FCC station license, but the pilot does not need an FCC operator license.) When flying aircraft of U.S. registry outside of the U.S., an FCC Restricted Radio Operator's license is required. Am I correct?

I ask this question because at a local aviation store, they were selling a textbook for passing the FCC General Radiotelephone license, and the implication was that an FCC General Radiotelephone license can be useful in aviation. Does this apply to technicians who check, maintain and calibrate

aviation radio equipment on the ground? Or does it apply to radio operators in the air?

I would appreciate any responses that might help clarify this issue. If you would prefer to send email to me rather than posting to the net, please send email to "kawai@speech.sri.com".

Thank you very much.

----- Speech Research Program, SRI, Menlo Park, CA 94025-3493 USA
--- Goh Kawai --- work:(415)859-2231 fax:(415)859-5984 home:(415)323-7214
----- internet: kawai@speech.sri.com radio: n6uok and 711fqe

Date: Thu, 14 Jan 1993 00:57:07 GMT
From: swrinde!gatech!destroyer!fmsrl7!ukma!miles@network.UCSD.EDU
Subject: How to get line-level audio out from DJ-580?
To: info-hams@ucsd.edu

rosso@roscoe.csd.sgi.com (Ross Oliver) writes:

>Does anyone know how to get line-level audio from an Alinco DJ-580 handheld?
>I would like to connect it to a tape recorder, but the "speaker" jack is
>for driving an 8-ohm speaker. Is there an adaptor or simple circuit I
>could buy/build to do the conversion?
>Ross Oliver

Try the other audio output. The mono jack that is next to the mic jack.
This should be useable. Just a guess though.

Date: 13 Jan 93 22:10:26 GMT
From: usc!news.bbn.com!olivea!spool.mu.edu!caen!uvaarpa!concert!rock!taco!
garfield.catt.ncsu.edu!kevind@network.UCSD.EDU
Subject: How to get started?
To: info-hams@ucsd.edu

In article <root.726881171@qwerty-gw> quent@md.fsl.noaa.gov (Quentin Johnson)
writes:

>
>I've been listening in to some local 2 meter band repeaters. Some folks
>were discussing a group of youngsters who just passed their tests. One
>8 year old earned his technician plus license! Another person was having
>his 80th birthday. This hobby is for everyone!

When I took the tests this past Saturday (now awaiting a brand-new

No-Code Tech license!) there was a 7-year old girl who passed the 20 word-per-minute code test! I think she's now a General.

73's!

Kevin J. Dunphy
kevind@catt.ncsu.edu

Date: Wed, 13 Jan 1993 19:19:47 GMT
From: shearson.com!newshost!mjohnsto@uunet.uu.net
Subject: License Delays 10/25 - 1/5
To: info-hams@ucsd.edu

In article <2b5448fb.drone@drone.hazeltine.com> clay@drone.hazeltine.COM (Clayton Decosterd) writes:

For general interest, I took my upgrade test on October 25, 1992 and received my license from the FCC yesterday January 11, 1993. The License is Dated January 5, 1993. I also spoke to a new novice yesterday and he took his test 2 weeks after I took mine, his license is also dated Jan 5, 1993 (maybe the FCC is catching up ???).

I've gotten confirmation from two people on this. Both took their tests the first week in November and received their licenses on January 11th. I didn't ask when the tickets were dated.

I took my test for a new license on December 1st. It would appear that I have at least another months worth of waiting.

Oh, the horror!

MJ

--

Michael R. Johnston, System Administrator mjohnsto@shearson.com
"The reasonable man adapts himself to the world; the unreasonable one persists in trying to adapt the world to himself. Therefore, all progress depends on the unreasonable man." - G.B. Shaw

Date: 14 Jan 93 00:07:00 GMT
From: olivea!mintaka.lcs.mit.edu!ai-lab!life.ai.mit.edu!jolt@ames.arpa
Subject: Looking for FT727r Service Manual (used)
To: info-hams@ucsd.edu

I am looking for a used FT727r Service manual that is no longer in use.. If anyone would be willing to part with one they no longer need or use, I am interested in it..

(This radio has gone thru sequential petty part failure, But i like it)

--

johnp@silver.lcs.mit.edu		Its not impossible, just improbable
jolt@gnu.ai.mit.edu		(Zaphod Beeblbrox)
bl298@cleveland.freenet.edu		N1NIG@amsat.org (Being a Ham is so grand)

Date: Wed, 13 Jan 1993 21:34:59 GMT

From: sdd.hp.com!zaphod.mps.ohio-state.edu!pacific.mps.ohio-state.edu!linac!att!
cbnewsm!swm@network.UCSD.EDU

Subject: Maidenhead system and GPS receivers

To: info-hams@ucsd.edu

I need to pick the collective brain of those on the net.

A while ago I read that there is a GPS positioning receiver that will display the Maidenhead coordinate system besides the conventional latitude/longitude system. Does anyone remember what make/model does this? I tried the Garmin (GPS 55) and Trimble (Flightmate) technical people but they didn't know what I was talking about. I would like to buy one of these receivers for navigating when I fly and it would nice to have the Maidenhead capability, too.

Thanks and 73

Scott McLellan, PP-ASEL, ND3P

Date: Wed, 13 Jan 1993 18:50:52 GMT

From: usc!sdd.hp.com!hp-cv!hp-pcd!hplsla!davidc@network.UCSD.EDU

Subject: Mobile 2m/70cm Antenna Mounts ???

To: info-hams@ucsd.edu

I am in the market for a 2m/70cm dual band mobile antenna and I have noticed that there are a number of antenna's that are available with either a UHF PL259 type mount or a NMO type mount. I know what these mounts look like but I am wondering what that advantages of one type over the other is. The antenna I am leaning towards is the Commet B10 and it is available in both mounts.

Thanks in advance for your replies, comments, and suggestions.

Dave, KB7QCL

Date: Wed, 13 Jan 1993 20:27:17 GMT
From: dog.ee.lbl.gov!overload.lbl.gov!agate!usenet.ins.cwru.edu!gatech!swrinde!
zaphod.mps.ohio-state.edu!sdd.hp.com!hpscit.sc.hp.com!hplextra!hpl-opus!hpnmdla!
alanb@network.UCSD.EDU
Subject: Need a 3rd hand for Soldering!?
To: info-hams@ucsd.edu

In rec.radio.amateur.misc, martin@datacomm.ucc.okstate.edu (Martin McCormick)
writes:

> For those who are curious, it is possible for a blind person to solder,

There's a deaf and blind technician who has worked for many years here at HP.
(He's also a ham). I understand he's one of our beter tech's.
The device he uses to "see" an oscilloscope screen is a real
Rube Goldberg contraption!

AL N1AL

Date: 13 Jan 93 22:37:48 GMT
From: news-mail-gateway@ucsd.edu
Subject: Reclaiming dormant SB100
To: info-hams@ucsd.edu

Fellow OMs, YLs, etc. :

Thanks to daily reading of this newsgroup for nearly a year, plus a move
from an apartment to my first house, I am finally ready to end 17 years
of near inactivity and get back on the air! My folks still have my old
Heath SB-100 (it had a mod to make it essentially the 101) at their home
in Arizona. I am considering having it shipped here to the frozen
Northeast. Any thoughts on this plan would be welcomed, and I'm sure
will be of general interest to many. Some specific questions include:

1. Tubes - any estimates of costs to re-tube this rig would be welcomed.
Breakdown by tube would be very useful since many may turn out to be OK.
I think I remember hearing of a tube supplier in Tempe, AZ - any info?
2. I remember hearing that the electrolytics in old rigs become depolarized
and can explode if powered up after a long time. Any discussion of this
problem, including procedures to rejuvenate the rig - I have heard of
applying AC gradually using a Variac. Has anyone done this and if so,
what is the proper rate to ramp up at? Can I assume that if the rig has
not been powered in 10 + years that this is necessary? Is there any

possible damage from this procedure, perhaps to relays from chattering or burnout?

3. Any further tips at restoration would be welcome.

4. Tips on packing and shipping such an item (don't forget the power supply/speaker enclosure - the heaviest part) across the country. Which is better - US Mail 4th class parcel post (very inexpensive) or UPS? Anyone have any experience here, good or bad, to draw upon?

If it ends up that this rig never makes it on the air again then that will be a shame, but getting my hands on my beautiful Lightning Bug again will really make my day!

On another unrelated issue:

My new (22 years old) house has Cu-Al wiring, no ground rod but a 10 AWG solid Cu wire run from the panel ground bus through BX cable approx. 40 ft. to the cold water pipe entry (yes, the water service is metal). The house wiring is barely adequate and lights dim when appliances cycle. The panel has no slots for additional breakers except by doubling up. I do intend to experiment with wire antennas of various sorts since I have the property, so the quality of the ground for RF purposes as well as lightning protection interests me. Comments?

I know some of these topics have been discussed at one time or another. Sorry for the lengthy descriptions but I am hoping some interesting posts of benefit to many others might result.

73, Kalman Laudon WD6CZI, formerly WA1SUF before I went West.
<klaudon@pica.army.mil>

P.S. It goes to show that ham radio really does bring people together, and that the addition of newer technologies only assists the process. I say this because I have seen postings here from two old friends, Don K6LTS and Greg, KD9AZ, formerly WA1NUK who I knew in high school. These friendships have been re-connected thanks to this newsgroup!

Date: Wed, 13 Jan 1993 21:51:14 GMT
From: telesoft!garym@uunet.uu.net
Subject: STS-54 Element Set (013.63355)
To: info-hams@ucsd.edu

While these Keplerian elements have an epoch time very close to the previous set this is based on NORAD radar data rather than prelaunch predictions. Launch occurred at today (93-1-13) at 13:59:30 UTC.

--GaryM

STS-54 element set GSFC-002 (Orbit 2)

STS-54

1	22313U	93	3	A	93013.63355244	0.00081466	00000-0	25599-3	0	27
2	22313	28.4672	154.4649	0002337	340.5647	19.4874	15.89882975			26

Satellite: STS-54

Catalog number: 22313

Epoch time: 93013.63355244 (13 JAN 93 15:12:18.93 UTC)

Element set: GSFC-002

Inclination: 28.4672 deg

RA of node: 154.4649 deg Space Shuttle Flight STS-54

Eccentricity: 0.0002337 Keplerian Elements

Arg of perigee: 340.5647 deg

Mean anomaly: 19.4874 deg

Mean motion: 15.89882975 rev/day Semi-major Axis: 6680.7429 Km

Decay rate: 0.81E-03 rev/day*2 Apogee Alt: 303.92 Km

Epoch rev: 2 Perigee Alt: 300.79 Km

NOTE - This element set is based on NORAD element set # 002.

The spacecraft has been propagated to the next ascending node, and the orbit number has been adjusted to bring it into agreement with the NASA numbering convention.

R.A. Parise, Goddard Space Flight Center

G.L.CARMAN

--

Gary Morris KK6YB Internet: elements-request@telesoft.com
San Diego, CA, USA Phone: +1 619-457-2700

Date: 13 Jan 1993 23:02:27 GMT

From: agate!darkstar.UCSC.EDU!cats.ucsc.edu!haynes@ames.arpa

Subject: Wanted: Teletype Model 15

To: info-hams@ucsd.edu

What?! Is he out of his mind?! You can't even give those things away!!

Well I have in mind to use one in a new museum that's being built here - the idea is to drive it with a PC so that it prints out "news" about the exhibit it's next to, along with real news from the same time period, so it's something fun to watch and people can tear off the copy and take with them. But I think my last Model 15 got left behind when I left

Chicago 26 years ago.

--

haynes@cats.ucsc.edu

haynes@cats.bitnet

"Ya can talk all ya wanna, but it's dif'rent than it was!"

"No it aint! But ya gotta know the territory!"

Meredith Willson: "The Music Man"

Date: Wed, 13 Jan 1993 17:08:56 GMT

From: usc!howland.reston.ans.net!zaphod.mps.ohio-state.edu!moe.ksu.ksu.edu!

mimbres.cs.unm.edu!constellation!osuunx.ucc.okstate.edu!datacomm.ucc.okstate.edu!

martin@network.UCSD.EDU

Subject: WWV Phone number?

To: info-hams@ucsd.edu

In article <9301071623.AA02775@tix.timeplex.com> taylor@tix.timeplex.COM (Seth Taylor) writes:

>the phone line delay should be relatively constant per call, whereas

>listening on HF may vary due to HF propagation.

>Seth T. KC2WE

I, once, had an opportunity to do an unscientific experiment along these lines. Some couple or so of years ago, commercial shortwave station KUSW in Salt Lake City tossed in the towel and was sold to a religious network which also occupies a channel on our CATV system. On the big day, the religious network had a big broadcast in which they blew up a huge collection of "satanic" rock records from KUSW days. The broadcast was simulcast on the cable and over the newly-acquired KUSW transmitter. I am sure that the KUSW transmitter was just picking up the audio carrier from the same satellite that fed all the cable outlets. It was possible to listen to both the shortwave audio and the cable at the same time. I was surprised that there seemed to be so little delay between the two signals. If I recall, there was probably not more than a couple of milliseconds between the two because listening to both did not produce a reverb effect that one might expect, but just a mixture of the QSB on the shortwave signal and the much better audio from the cable.

I seem to recall that besides the demolition of the rock records, the rest of the program consisted of whining for money and asking for reception reports.

Martin McCormick WB5AGZ Stillwater, OK

O.S.U. Computer Center Data Communications Group

Date: 13 Jan 93 23:45:04 GMT
From: olivea!spool.mu.edu!uwm.edu!logicse!flop.ENGR.ORST.EDU!prism.CS.ORST.EDU!
kayd@uunet.uu.net
To: info-hams@ucsd.edu

References <#-41H1euzb@atlantis.psu.edu>, <root.726881171@qwerty-gw>,
<1993Jan13.221026.7540@ncsu.edu>
Subject : Re: How to get started?

And now the wait begins...

I called ARRL today since it has been 2 mos. since I passed my
tech. test. They say it is taking 3-4 mos. for the license to be
issued...

Darrek Kay
Kayd@Prism.cs.orst.edu
(503)737-9410

Date: Wed, 13 Jan 1993 23:47:23 GMT
From: sdd.hp.com!zaphod.mps.ohio-state.edu!howland.reston.ans.net!
paladin.american.edu!gatech!concert!rock!scamp.concert.net!jrr@network.UCSD.EDU
To: info-hams@ucsd.edu

References <1993Jan11.175633.22769@samba.oit.unc.edu>, <C0prIE.3so@amdcl2>,
<1993Jan13.024102.19899@uhura.neoucom.edu>conce
Subject : Re: Yaesu FT 5100 Reviews??

It may be the case that for a FT 5100 that the repeater function is advertised
but not documented in the manual, in the case of my FT 5200 the repeater
function is neither advertised nor documented but it works just fine. I tried
the procedure of holding in the "rpt" button while powering on the rig and
eureka! it came on with an "r" in front of the frequency on both freq displays.
And, it will repeat any simplex frequency to the cross band displayed repeater
freq selected. Now I conjure up ways to make use of such...

Great to discover such options I never anticipated.

I need to tweek up the deviation level a bit from the factory setting, mumble,
mumble...

--joe, W4BZL

Date: Wed, 13 Jan 1993 20:33:40 GMT
From: pacbell.com!charon.amdahl.com!amdahl!amdcad!amdc12!brian@network.UCSD.EDU
To: info-hams@ucsd.edu

References <1993Jan11.175633.22769@samba.oit.unc.edu>, <C0prIE.3so@amdc12>,
<1993Jan12.204645.16576@kd4nc.uucp>
Subject : Re: Yaesu FT 5100 Reviews??

(John Reed) writes:

> I have a question about your review of the 5100....
>
> On the scan function, when running PL decode, will it stop on a busy channel
> even if the wrong pl is there, or no pl at all, and just mute the audio?
> Or will it just skip over it, just like my Kenwood TH-77?

I got another e-mail with the same question, so I'm posting...

Is this a trick question? :-) I don't normally run decode, so I had to go try it. When scan hits a busy frequency without the correct CTCSS on it, it stops scan, flashes the strength meter and then continues scanning. It takes a bit longer to receive/decode the CTCSS and then continue, but it doesn't lock up. It slows the scan down a bit, but it is still a fast scanner.

Brian brian@amdc12.amd.com

Date: 13 Jan 93 22:16:14 GMT
From: usc!news.bbn.com!olivea!spool.mu.edu!caen!uvaarpa!concert!rock!taco!
garfield.catt.ncsu.edu!kevind@network.UCSD.EDU
To: info-hams@ucsd.edu

References <#-41H1euzb@atlantis.psu.edu>, <root.726881171@qwerty-gw>,
<1993Jan13.221026.7540@ncsu.edu>iel.
Subject : Beginner's Rig

"Oh mighty net-news oracle..."

What recommendations do you have for a newbie looking for some gear? I just passed the no-code tech tests this weekend, and would like to gain some net-wisdom before I sink mucho bucks into less-than-deserving hardware.

My personal intention is to get a handheld to work the 2-meter repeaters in town (and out!). Questions:

What does one look for in a handheld?

What does one look for in USED equipment?

Will I regret settling for a single-bander two weeks after
I get on the air?

Do I really need 1500 watts in a handheld?
:-> :->

etc.

thanks
kevind

(callsign goes here)

Kevin J. Dunphy
kevind@catt.ncsu.edu

End of Info-Hams Digest V93 #57
